

S02224
(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

10' 502224

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
31 July 2003 (31.07.2003)

PCT

(10) International Publication Number
WO 03/061392 A1(51) International Patent Classification⁷: A01N 63/00,
65/00, C12N 5/0084112 (US). LIU, Ying [CN/US]; 9308 Hallsboro Circle,
Apartment 304, Baltimore, MD1234 (US).

(21) International Application Number: PCT/US03/02356

(74) Agents: LICATA, Jane, Massey, et al.; Licata & Tyrrell
P.C., 66E. Main Street, Marlton, NJ 08053 (US).

(22) International Filing Date: 23 January 2003 (23.01.2003)

(25) Filing Language: English

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,
SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW.(30) Priority Data:
60/351,036 23 January 2002 (23.01.2002) US(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI,
SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicants (for all designated States except US): UNIVERSITY OF UTAH RESEARCH FOUNDATION [US/US]; 210 Park Building, Salt Lake City, UT 84112 (US). THE GOVERNMENT OF THE UNITED STATES OF AMERICA [US/US]; as represented by the Secretary, Department of Health and Human Services., Suite 325, 6011 Executive Boulevard, Rockville, MD 20852 (US).

Published:
— with international search report

(72) Inventors; and

(75) Inventors/Applicants (for US only): RAO, Mahendra, S. [US/US]; 8 Breezy Tree Court, #D, Timonium, MD 21093 (US). MUJTABA, Tahmina [PK/US]; 6993 Well Wood Road, Apartment 3J, Midvale, UT 84047 (US). WU, Yuan Yuan [CN/US]; 1014 Medical Plaza, Salt Lake City, UT

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 03/061392 A1

(54) Title: PURE POPULATIONS OF ASTROCYTE RESTRICTED PRECURSOR CELLS AND METHODS FOR ISOLATION AND USE THEREOF

(57) Abstract: An isolated, pure homogeneous population of mammalian astrocyte restricted precursor cells which is CD44 immunoreactive and which generate astrocytes but not oligodendrocytes is provided. Methods for isolating and using these mammalian astrocyte restricted precursor cells are also provided.